What is claimed is:

- 1. A lithographic printing original plate having a photosensitive layer on a substrate directly or on an another layer provided thereon, said photosensitive layer being made of a crosslinked polymer having ink repellency, and having properties that the photosensitive layer is changed from ink-repellent to ink-receptive by irradiation with a light.
- 2. The lithographic printing original plate as claimed in claim 1, wherein the photosensitive layer is a photosensitive hydrophilic resin layer obtained by crosslinking a photosensitive composition comprising a hydrophilic polymer, a crosslinking agent and a light absorbing compound.
- 3. The lithographic printing original plate as claimed in claim 1, wherein the photosensitive layer is a photosensitive hydrophilic resin layer obtained by crosslinking a photosensitive composition comprising a hydrophilic polymer, a crosslinking agent, a light absorbing compound and a hydrophobic polymer.
 - 4. The lithographic printing original plate as claimed in claim 2, wherein the photosensitive hydrophilic resin layer

has a phase separation structure consisting of a hydrophilic polymer phase and a hydrophobic polymer phase.

5. The lithographic printing original plate as claimed in claim 3, wherein the hydrophilic polymer is a polymer containing as a main component one or more monomers selected from unsubstituted or substituted (meth)acrylamide, N-vinylformamide and N-vinylacetamide, the hydrophobic polymer is an aqueous dispersion polymer having an average particle diameter of 0.005 to 0.5 µm and a film forming temperature of not higher than 50°C, and the photosensitive hydrophilic resin layer has a phase separation structure consisting of a hydrophilic polymer phase and a hydrophobic polymer phase.

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6. The lithographic printing original plate as claimed in claim 4 or 5, wherein the photosensitive layer has a property which is locally foamed by irradiation with a light and changed from ink-repellent to ink-receptive.

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7. A process for producing a lithographic printing plate, comprising irradiating the lithographic printing original plate of claim 5 or 6 with a light having a wavelength of 750 to 1100 nm.

- 8. A lithographic printing plate obtained by irradiating a lithographic printing original plate having a photosensitive layer on a substrate directly or on an another layer provided thereon, said photosensitive layer being made of a crosslinked polymer having ink repellency, with a light to change the photosensitive layer from ink-repellent to ink-receptive.
- 9. The lithographic printing plate as claimed in claim 8, wherein the photosensitive layer is a photosensitive hydrophilic resin layer obtained by crosslinking a photosensitive composition comprising a hydrophilic polymer, a crosslinking agent and a light absorbing compound.

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- 10. The lithographic printing plate as claimed in claim 8, wherein the photosensitive layer is a photosensitive hydrophilic resin layer obtained by crosslinking a photosensitive composition comprising a hydrophilic polymer, a crosslinking agent, a light absorbing compound and a hydrophobic polymer.
- 11. The lithographic printing plate as claimed in claim 9, wherein the photosensitive hydrophilic resin layer has a

phase separation structure consisting of a hydrophilic polymer phase and a hydrophobic polymer phase.

12. The lithographic printing plate as claimed in claim
10, wherein the hydrophilic polymer is a polymer containing
as a main component one or more monomers selected from
unsubstituted or substituted (meth)acrylamide,
N-vinylformamide and N-vinylacetamide, the hydrophobic
polymer is an aqueous dispersion polymer having an average
particle diameter of 0.005 to 0.5 µm and a film forming
temperature of not higher than 50°C, and the photosensitive
hydrophilic resin layer has a phase separation structure
consisting of a hydrophilic polymer phase and a hydrophobic
polymer phase.

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13. The lithographic printing plate as claimed in claim 11 or 12, wherein the photosensitive layer is locally foamed by irradiation with a light And changed from ink-repellent to ink-receptive.

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14. The lithographid printing plate as claimed in claim 12 or 13, wherein the light for the irradiation has a wavelength of 750 to 1100 nm.



